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A Flow Chart for Array-based Detection of Gene Expression

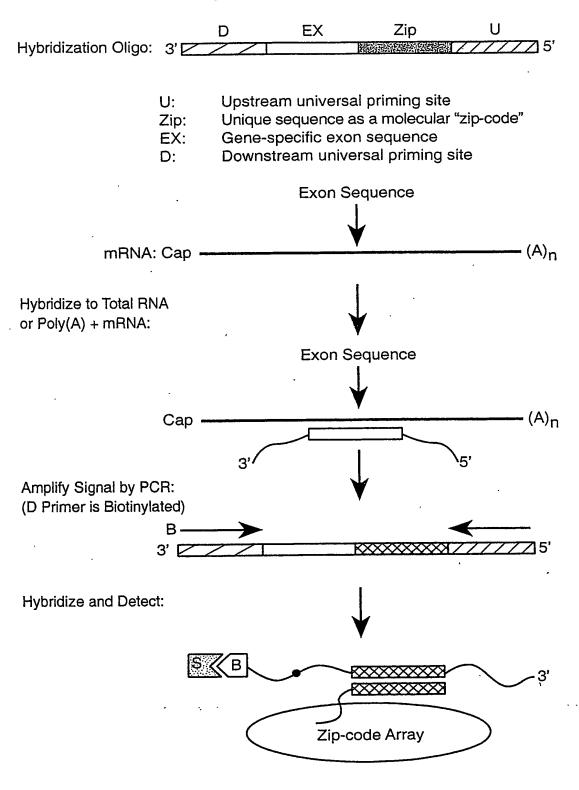


FIG._1

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A Flow Chart for Array-based Detection of RNA Alternative Splicing

U Zip SJ Hybridization Oligo: 3' ∠ Upstream universal priming site U: Unique sequence as a molecular "zip-code" Zip: Gene-specific splice junction SJ: Downstream universal priming site D: Splice Junction • (A)_n mRNA: Cap Hybridize to Total RNA or Poly(A) + mRNA: Splice Junction $-(A)_n$ Cap Amplify Signal by PCR: (D Primer is Biotinylated) B Hybridize and Detect: $\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times$ Zip-code Array

FIG._2

Genome-wide Gene Expression Profiling Using Oligo-ligation Strategy

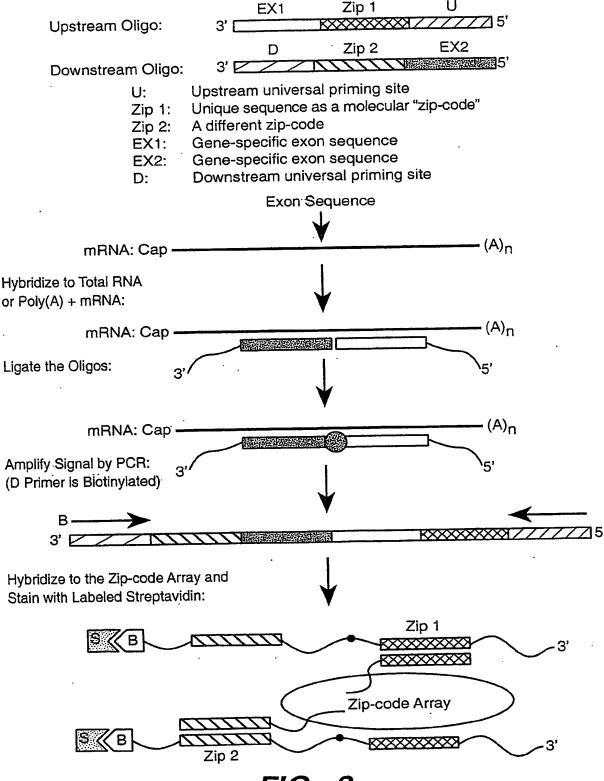
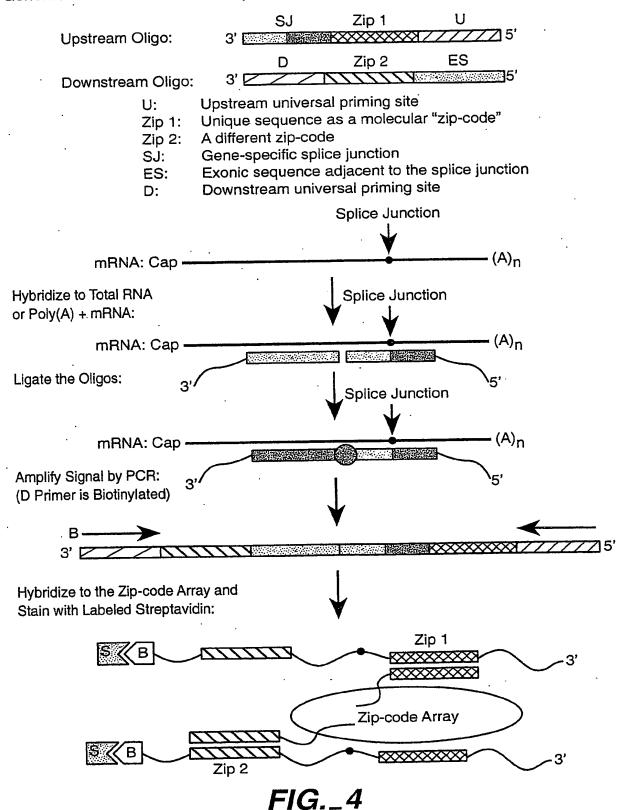


FIG._3

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Genome-wide RNA Alternative Splicing Monitoring Using Oligo-Ligation Strategy



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Direct Genotyping Using a Whole-genome Oligo-ligation Strategy

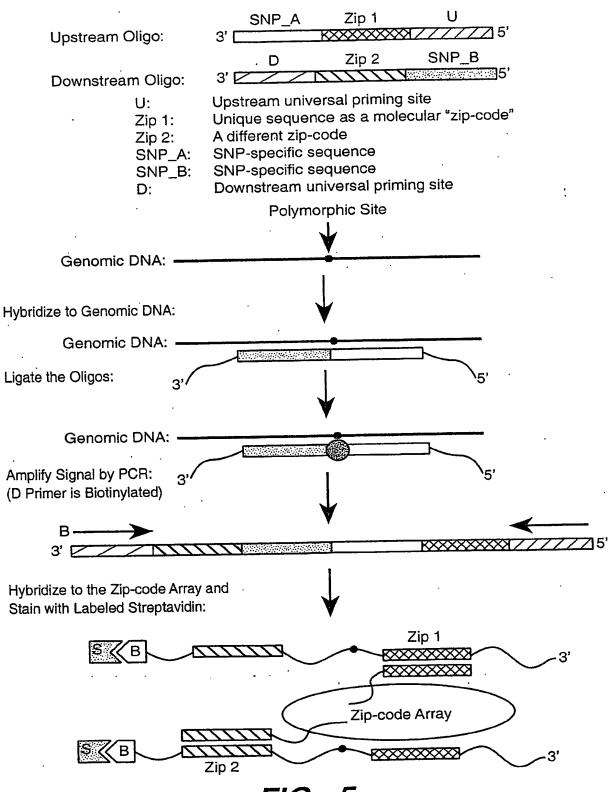
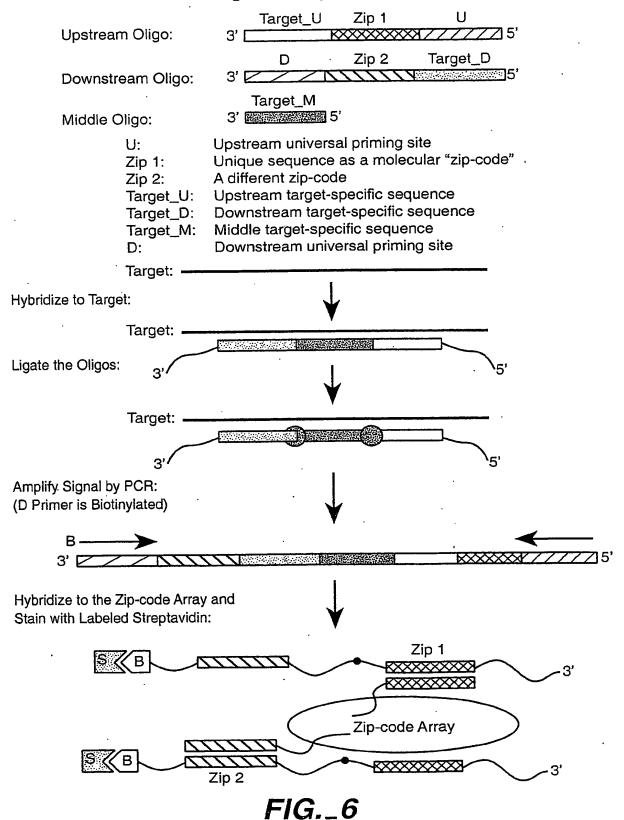
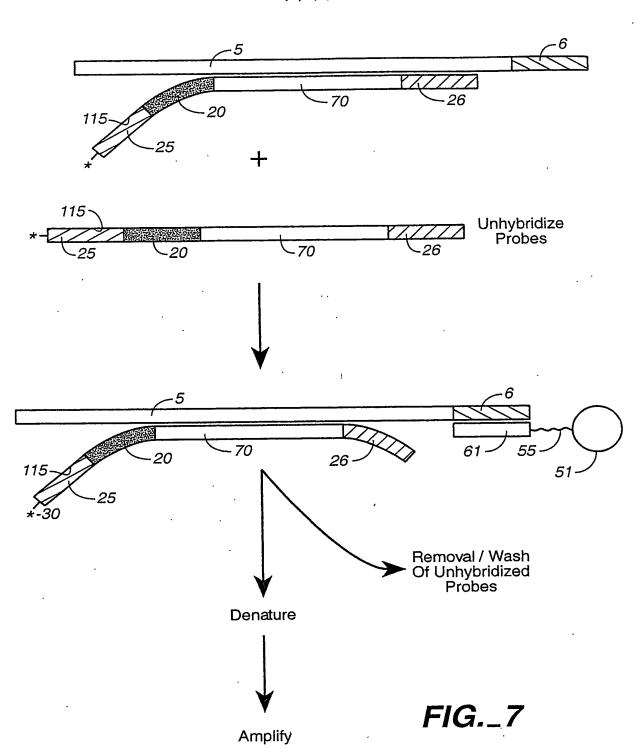


FIG._5

Whole-genome Oligo-ligation Strategy



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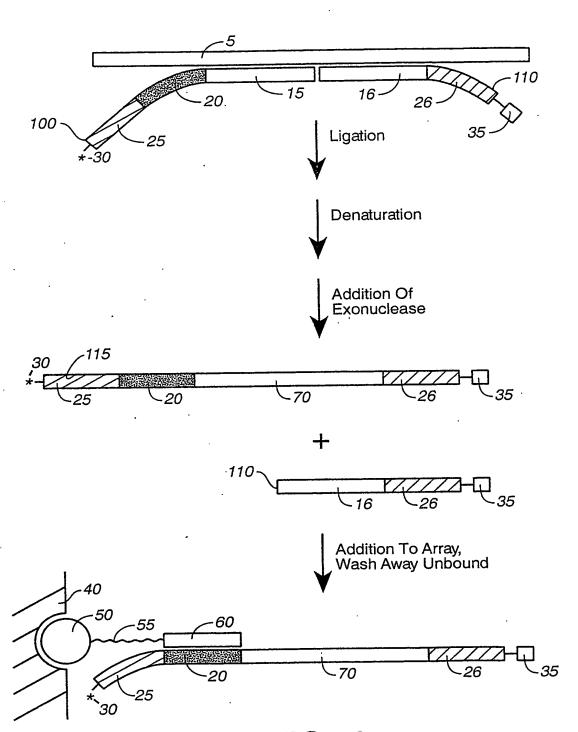


FIG._8

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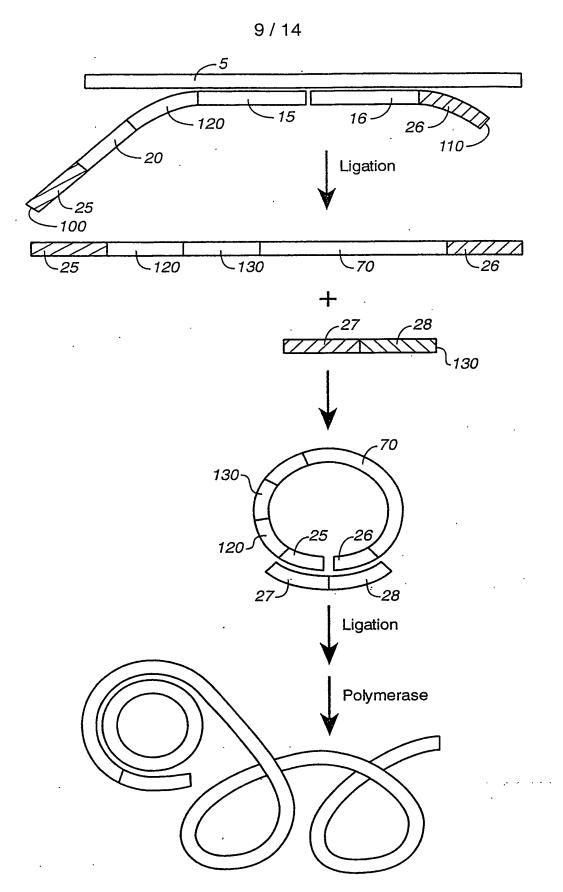


FIG._9

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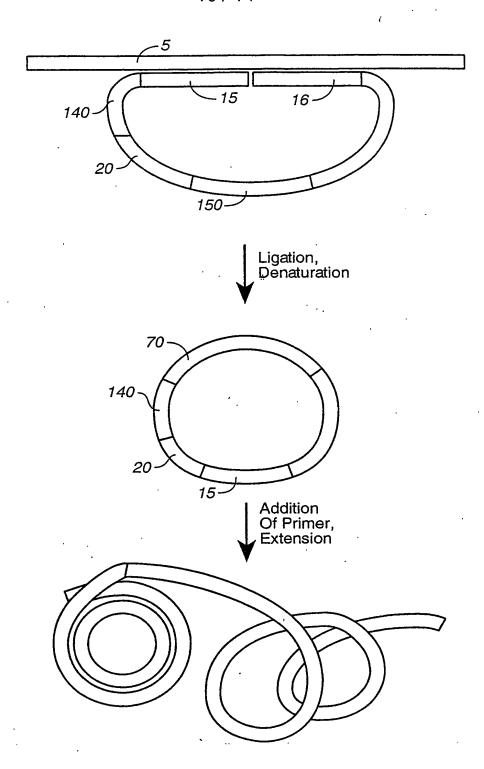


FIG._10

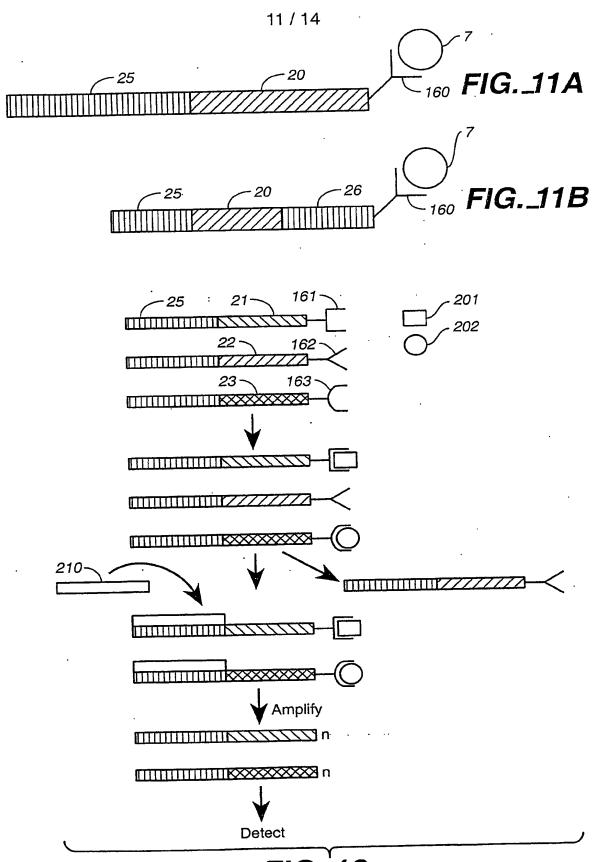
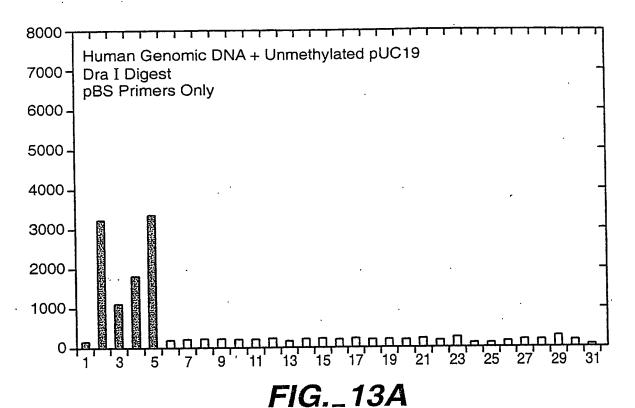


FIG._12



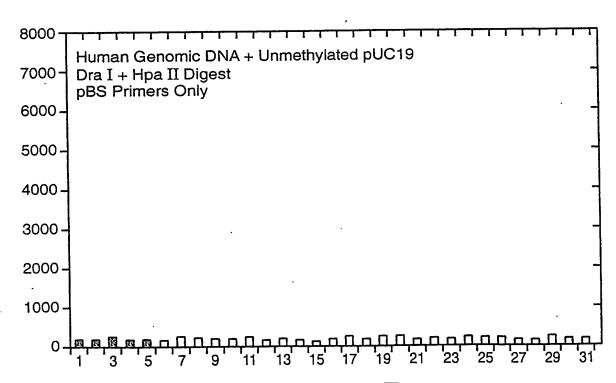


FIG._13B

